

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listings of Claims:

1. (Withdrawn) A DNA encoding a following protein (a) or (b):

(a) a protein consisting of an amino acid sequence shown in SEQ ID NO: 2,

(b) a protein comprising an amino acid sequence where one or several amino acids are deleted, replaced or added in an amino acid sequence shown in SEQ ID NO: 2, and having a regulatory activity of chromosome segregation.

2. (Withdrawn) A DNA consisting of a base sequence shown in SEQ ID NO. 1 or a complementary sequence thereof.

3. (Withdrawn) A DNA containing part or whole of a base sequence shown in SEQ ID NO: 1 or a complementary sequence thereof, and encoding a protein that has a regulatory activity of chromosome segregation.

4. (Withdrawn) A DNA hybridizing with the DNA according to claim 2 under stringent conditions and encoding a protein that has a regulatory activity of chromosome segregation.

5. (Currently Amended) [[A]] An isolated and purified protein consisting of the amino acid sequence shown in SEQ ID NO: 2.

6. (Currently Amended) [[A]] An isolated and purified protein encoded by a DNA hybridizing with the antisense strand of a DNA encoding the protein according to claim 5 under stringent conditions consisting of an amino acid sequence where one or several amino acids are deleted, replaced or added in the amino acid sequence shown in SEQ ID NO: 2, and having a regulatory activity of chromosome segregation.

7. (Withdrawn) A DNA encoding a following protein (a) or (b):

- (a) a protein consisting of an amino acid sequence shown in SEQ ID NO: 4,
- (b) a protein consisting of an amino acid sequence where one or several amino acids are deleted, replaced or added in an amino acid sequence shown in SEQ ID NO: 4, and having a regulatory activity of chromosome segregation.

8. (Withdrawn) A DNA consisting of a base sequence shown in SEQ ID NO: 3 or a complementary sequence thereof.

9. (Withdrawn) A DNA containing part or whole of a base sequence shown in SEQ ID NO: 3 or a complementary sequence thereof, and encoding a protein that has a regulatory activity of chromosome segregation.

10. (Withdrawn) A DNA hybridizing with the DNA according to claim 8 under stringent conditions and encoding a protein that has a regulatory activity of chromosome segregation.

11. (Withdrawn) A protein consisting of the amino acid sequence shown in SEQ ID NO: 4.

12. (Withdrawn) A protein consisting of an amino acid sequence where one or several amino acids are deleted, replaced or added in the amino acid sequence shown in SEQ ID NO: 4, and having a regulatory activity of chromosome segregation.

13. (Withdrawn) A DNA encoding a following protein (a) or (b):

- (a) a protein consisting of an amino acid sequence shown in SEQ ID NO: 6,
- (b) a protein consisting of an amino acid sequence where one or several amino acids are deleted, replaced or added in an amino acid sequence shown in SEQ ID NO: 6, and having a regulatory activity of chromosome segregation.

14. (Withdrawn) A DNA consisting of a base sequence shown in SEQ ID NO: 5 or a complementary sequence thereof.

15. (Withdrawn) A DNA containing part or whole of a base sequence shown in SEQ ID NO: 5 or a complementary sequence thereof, and encoding a protein that has a regulatory activity of chromosome segregation.

16. (Withdrawn) A DNA hybridizing with the DNA according to claim 14 under stringent conditions and encoding a protein that has a regulatory activity of chromosome segregation.

17. (Withdrawn) A protein consisting of the amino acid sequence shown in SEQ ID NO: 6.

18. (Withdrawn) A protein consisting of an amino acid sequence where one or several amino acids are deleted, replaced or added in the amino acid sequence shown in SEQ ID NO: 6, and having a regulatory activity of chromosome segregation.

19. (Withdrawn) A DNA encoding a following protein (a) or (b) that has a regulatory activity of chromosome segregation:

(a) a protein consisting of an amino acid sequence shown in SEQ ID NO: 8, 10, 12, 14, 16, 18 or 20,

(b) a protein consisting of an amino acid sequence where one or several amino acids are deleted, replaced or added in an amino acid sequence shown in SEQ ID NO: 8, 10, 12, 14, 16, 18 or 20.

20. (Withdrawn) A DNA consisting of a base sequence shown in SEQ ID NO: 7, 9, 11, 13, 15, 17 or 19 or a complementary sequence thereof, and encoding a protein that has a regulatory activity of chromosome segregation.

21. (Withdrawn) A DNA containing part or whole of a base sequence shown in SEQ ID NO: 7, 9, 11, 13, 15, 17 or 19 or a complementary sequence thereof, and encoding a protein that has a regulatory activity of chromosome segregation.

22. (Withdrawn) A DNA hybridizing with the DNA according to claim 7, 9, 11, 13, 15, 17 or 19 under stringent conditions and encoding a protein that has a regulatory activity of chromosome segregation.

23. (Withdrawn) A protein consisting of the amino acid sequence shown in SEQ ID NO: 8, 10, 12, 14, 16, 18 or 20, and having a regulatory activity of chromosome segregation.

24. (Withdrawn) A protein consisting of an amino acid sequence where one or several amino acids are deleted, replaced or added in the amino acid sequence shown in SEQ ID NO: 8, 10, 12, 14, 16, 18 or 20, and having a regulatory activity of chromosome segregation.

25. (Withdrawn) A fusion protein in which the protein according to claim 5, 6, 11, 12, 23 or 24 is bound with a marker protein and/or a peptide tag.

26. (Withdrawn) An antibody specifically binding to the protein according to claim 5, 6, 11, 12, 23 or 24.

27. (Withdrawn) The antibody according to claim 26, which is a monoclonal antibody.